

## **CLAIMS**

Please cancel claims 1-22 and add the following claims:

23. (new) A device for measuring at least one physiological parameter in a body, said device comprising:
- a. an endoprosthesis located within said body, said endoprosthesis defining an inner surface and an outer surface,
  - b. a first sensor adapted for being chronically implanted within said body, wherein said first sensor is disposed closer to said outer surface of said endoprosthesis than to said inner surface of said endoprosthesis,
  - c. a second sensor adapted for being chronically implanted within said body wherein said second sensor is disposed closer to said inner surface of said endoprosthesis than to said outer surface of said endoprosthesis.
24. (new) The device according to claim 23, wherein said endoprosthesis is bifurcated.
25. (new) The device according to claim 23, wherein said physiological parameter is selected from the group consisting of pressure, flow velocity, and pressure waveforms.
26. (new) The device according to claim 23, wherein said first sensor is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
27. (new) The device according to claim 23, wherein said second sensor is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.

28. (new) A method for measuring a physiological parameter in a body, comprising the steps of:
- a. chronically implanting an endoprosthesis within said body, said endoprosthesis defining an inner surface and an outer surface,
  - b. chronically implanting a first sensor closer to said outer surface than to said inner surface,
  - c. chronically implanting a second sensor closer to said inner surface than to said outer surface.
29. (new) The method of claim 28, wherein said physiological parameter is selected from the group consisting of pressure, flow velocity, and pressure waveforms.
30. (new) The method of claim 28, wherein said first sensor is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
31. (new) The method of claim 28, wherein said second sensor is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.

Respectfully,

A handwritten signature in black ink, appearing to read 'Matthew J. Fitz', with a long horizontal flourish extending to the right.

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